XIX. *Abstract of a Register of the Barometer, Thermometer, and Rain, at* Lyndon, *in* Rutland. *By* Thomas Barker, *Esq.; with the Rain in* Surrey *and* Hampshire, *for the Year* 1792; *and a Comparison of wet Seasons. Communicated by* Thomas White, *Esq. F. R. S.*

Read June 20, 1793.

		Barometer.			Thermometer.						Rain.			
					In the House.			Abroad.				Surrey.	Hampshire.	
		Highest.	Lowest.	Mean.	High.	Low.	Mean.	High.	Low.	Mean.	Lyndon.	South Lambeth.	Selbourn.	Fyfield
		Inches.	Inches.	Inches.	°	°	°	°	°	°	Inches.	Inches.	Inches.	Inches.
Jan.	Morn.	29,92	28,47	29,18	47½	30	39	46½	16	34½	2,097	2,51	6,07	4,47
	Aftern.				49	30½	39½	51½	25	38½				
Feb.	Morn.	94	29,04	48	47½	32	41	47½	16½	35	0,712	1, 5	1,68	1, 6
	Aftern.				49	34	42	55	26	42½				
Mar.	Morn.	30,00	28,53	26	50	35	44	48½	25½	39	1,096	2,13	6,70	2,92
	Aftern.				51	35½	45	57	30½	47½				
Apr	Morn.	29,85	72	42	60	43½	51	56	36½	46	4,042	2, 4	4,08	2, 9
	Aftern.				62	44	53	71	39	57				
May	Morn.	91	77	49	58½	45	50½	58	36½	47½	1,660	1,49	3,00	2,51
	Aftern.				62	46	53	68	45	57				
June	Morn.	88	97	46	63	50	54½	64½	47	53	4,043	1,45	2,78	3,17
	Aftern.				67	53	57	77½	49	62½				
July	Morn.	71	29,13	41	65	53	59½	66½	52	57½	3,674	3,98	5,16	3,81
	Aftern.				68	57½	61	78	57½	67½				
Aug.	Morn.	83	28,89	48	69	57	62½	67½	50	58½	2,861	2,86	4,25	2,52
	Aftern.				73	59½	65	79½	61	70				
Sep.	Morn.	85	57	30	61½	48½	55	60	41½	50	3,977	2,66	5,53	3,93
	Aftern.				63½	50	56	68½	48	58				
Oct.	Morn.	97	72	34	58	46	49	57	35	45½	1,756		5,55	4, 6
	Aftern.				59	46	50½	66	46	52				
Nov.	Morn.	91	78	52	51½	40½	46	50½	31½	42½	0,761		1,65	90
	Aftern.				53	39½	46½	56	37½	47				
Dec.	Morn.	85	50	31	48	36	41	52	29	39	2,723		2,11	1,40
	Aftern.				48½	36	42	54	31	41½				
											29,402		48,56	32,84

THE winter was a severe one; there was a sharp frost every month from December to March, chiefly between the full and the new moons, and the intervals were often stormy and wet; but those in February, both at the middle and latter end of the month, were milder, and less wet. The beginning of March continued mild, with frequent though small rains; then followed as sharp a frost, for a week, as any in the winter. After that stormy weather into April, but warm and growing; till a violent thunder storm toward Stamford the 13th, and two days continued rain here, and in most other places, about the 18th, renewed the wet season; which lasted all summer, and was perhaps wetter in many places than here, for we had no heavy thunder storms all the summer, as they had in some parts. Whenever there was thunder this year, it was almost always cold after it, and often cold weather without it; very little sunshine, and many sharp frosty mornings both in May and June, which cut off the apples after they appeared to be set. The greatest rains this summer were after the middle of April; before the middle of May; about the 8th of June; the 21st of July; the 18th of August; and 14th of September: those in April, June, and July, made floods, the two latter of which did great damage to the meadow hay; and there were frequent, sometimes almost daily, lesser rains. The intervals of fair and fine weather were short, and not many, and those not always warm; the beginning of May, and about the 21st; the beginning and end of June; the beginning of July; and, what was the finest time this summer, the first half of August. During this, in general so very wet a season, the hay and harvest were got in, and, where they were not flooded, I think with less damage than might have

been expected. The latter hay was got up during the fine time in August; some of the harvest in a tolerable time the beginning of September; and what was delayed by the almost daily rains for two-thirds of September, was finished in a fine time the beginning of October; the crop of wheat was tolerable well, but barley, oats, and peas, were dear.

This year was the wettest since 1782, which, with 1774, and some others, exceeded it; and this, like those two years, began to grow less wet the beginning of October. Yet the frequent rains after that, though less in quantity, kept the ground from drying, which was already too wet, and the roads continued uncommonly torn up all winter; and December, being wetter, increased it. The last six weeks of the year were in general dark and cloudy, or misty; very little sun, and not much frost, and so far seems to promise an open winter; but December was a stormy time; several great ones, and some great rains and floods.

A Comparison of wet Seasons.

Twelve Months.

No. I.

	1774.		1782.		1792.	
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January	3,308		2,333		2,097	
February	1,946	5,254	0,636	2,969	0,712	2,809
March	2,728	7,982	1,923	4,892	1,096	3,905
April	1,523	9,505	6,125	11,017	4,042	7,947
May	3,142	12,647	5,722	16,739	1,660	9,607
June	2,483	15,130	1,295	18,034	4,043	13,650
July	3,227	18,357	2,697	20,731	3,674	17,324
August	3,910	22,267	3,114	23,845	2,861	20,185
Septem.	8,000	30,267	5,151	28,996	3,977	24,162
October	1,156	31,423	1,502	30,498	1,756	25,918
Novem.	1,530	32,953	1,074	31,572	0,761	26,679
Decem.	2,282	35,235	0,517	32,089	2,723	29,402
	1773	29,376				
	1775	31,699				
Three years		96,310				

No. II.

Oct. 3, 1773 to Oct. 2, 1774.		Dec. 1774 to Nov. 1775.		Oct. 1791 to Sept. 1792.		Feb. 1763 to Jan. 1764.		1768.	
	Inches.		Inches.		Inches.		Inches.		Inches.
Oct. 3	2,615	Dec.	2,282	Oct.	3,319	Feb.	2,882	Jan.	2,834
Nov.	3,605	Jan.	1,973	Nov.	4,231	Mar.	0,919	Feb.	3,062
Dec.	2,897	Feb.	2,522	Dec.	1,150	April	0,692	March	0,391
Jan.	3,308	Mar.	1,728	Jan.	2,097	May	2,304	April	2,023
Feb.	1,946	April	1,035	Feb.	0,712	June	2,426	May	1,622
March	2,728	May	0,900	March	1,096	July	5,657	June	4,521
April	1,523	June	0,887	April	4,042	Aug.	2,929	July	2,402
May	3,142	July	4,078	May	1,660	Sept.	3,307	Aug.	1,720
June	2,483	Aug.	4,760	June	4,043	Oct.	1,606	Sept.	3,025
July	3,227	Sep.	5,670	July	3,674	Nov.	1,894	Oct.	3,119
August	3,910	Oct.	3,480	Aug.	2,861	Dec.	3,525	Nov.	4,040
Septem.	8,000	Nov.	3,570	Sept.	3,977	Jan.	3,984	Dec.	2,146
Oct. 1 & 2	0,340								
	39,724		32,885		32,862		32,125		30,905

No. III.

Three years.

	May 9, 1773, to May 8, 1776.				17 months.—May 9, 1773, to Oct. 8, 1774.	
	1773.	1774.	1775.	1776.	1773.	1774.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Jan.		3,308	1,973	2,511		3,308
Feb.		1,946	2,522	3,195		1,946
March		2,728	1,728	1,518		2,728
April		1,523	1,035	0,887		1,523
May	6,770	3,142	0,900	0,860	6,770	3,142
June	2,389	2,483	0,887		2,389	2,483
July	1,077	3,227	4,078		1,077	3,227
August	3,379	3,910	4,760		3,379	3,910
Septem.	2,812	8,000	5,670		2,812	8,000
October	2,621	1,156	3,480		2,621	0,460
Novem.	3,605	1,530	3,570		3,605	
Decem.	2,897	2,282	1,096		2,897	
	25,550	35,235	31,699	8,971	25,550	30,727
			Three years time	101,455		56,277

No. IV.

Nine months.

Jan. 6, to Oc. 6, 1774.		Jul. 1775 to Mar. 1776.		Jan. 1782 to Sept.		May, 1773 to Jan. 1774.		May, 1763 to Jan. 1764.		April, 1768 to Dec.		Jan. 1792 to Sept.	
	Inches.		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.
Jan.	3,308	Jul.	4,078	Jan.	2,333	May	6,843	May	2,304	Apr.	2,023	Jan.	2,097
Feb.	1,946	Aug	4,760	Feb.	0,636	June	2,389	June	2,426	May	1,622	Feb.	0,712
Mar.	2,728	Sep.	5,670	Mar.	1,923	July	1,077	July	5,657	June	4,521	Mar.	1,096
Apr.	1,523	Oct.	3,480	Apr.	6,125	Aug	3,379	Aug	2,929	July	2,402	Apr.	4,042
May	3,142	Nov.	3,570	May	5,722	Sep.	2,812	Sep.	3,307	Aug	1,720	May	1,660
June	2,483	Dec.	1,096	June	1,295	Oct.	2,621	Oct.	1,606	Sep.	3,025	June	4,043
July	3,227	Jan.	2,511	July	2,697	Nov.	3,605	Nov.	1,894	Oct.	3.119	July	3,674
Au.	3,910	Feb.	3,195	Aug	3,114	Dec.	2,897	Dec.	3,525	Nov.	4,040	Aug	2,861
Sep.	8,000	Mar.	1,518	Sep.	5,151	Jan.	3,308	Jan.	3,984	Dec.	2,146	Sep.	3,977
Oct.	0,460												
	30,727		29,878		28,996		28,931		27,632		24,618		24,162

No. V.

Six months.

April 12, 1782, to Oct. 11.		July to Dec. 1775.		April to Sept. 1774.		April to Sept. 1792.	
	Inches.		Inches.		Inches.		Inches.
April 12	5,375	July	4,078	April	1,523	April	4,042
May	5,722	Aug.	4,760	May	3,142	May	1,660
June	1,295	Sept.	5,670	June	2,483	June	4,043
July	2,697	Oct.	3,480	July	3,227	July	3,674
August	3,114	Nov.	3,570	Aug.	3,910	Aug.	2,861
Septem.	5,151	Dec.	1,096	Sept.	8,000	Sept.	3,977
Oct. to 11	0,950		22,654		22,285		20,257
	24,304						

No. VI.

Three months.

July 3, 1774, to Oct. 2.		1775.		1782.		1770.	
	Inches.		Inches.		Inches.		Inches.
July 3	3,227	July	4,078	Mar.	1,923	Oct.	3,114
August	3,910	Aug.	4,760	Apr.	6,125	Nov.	7,818
Septemb.	8,000	Sept.	5,670	May	5,722	Dec.	2,613
Oct. 1 & 2	0,340		14,508		13,770		13,545
	15,477						

1763.		1737.		1784.		May 25, 1792, to Aug. 24.	
	Inches.		Inches.		Inches.		Inches.
July	5,657	Aug.	6,300	May	2,890	May 25	0,770
Aug.	2,929	Sept.	3,465	June	3,810	June	4,043
Sept.	3,307	Oct.	2,025	July	5,080	July	3,674
	11,893		11,790		11,780	Au. to 24	2,511
							10,998

No. VII.

One month.

		Inches.
1774	September 3	7,930
	to Oct. 2	0,340
		8,270
1770	November 6	7,818
	to Dec. 5	0,410
		8,228
1773	May - -	6,843
1736	July -	6,550
1737	August -	6,300
1782	April -	6,125
1757	August -	6,057
1782	May -	5,722
1775	September	5,670
1763	July - -	5,657
1743	July - -	5,230
1776	August -	5,200
1782	September	5,151
1792	August 16	2,762
	to Sept. 15	2,346
		5,108

No. VIII.

Abstract.

	Inches.
Three years time - -	101,455
Three calendar years, 1773, 1774, and 1775 - -	96,310
Seventeen months - -	56,277
Twelve months - -	39,724
Nine months - -	30,727
Six months - -	24,304
Three months - - -	15,477
One month - - -	8,270

The year 1792 was a very wet one, and by many imagined to exceed all others, but that does not appear to be fact; the wet of last year is fresh in memory, that of former years is more forgotten. It might seem the wetter, because the autumn of 1791 was wet, so that there was a long continuance of it; and perhaps there might be more rain in some other places than here, as we had no great thunder storms all the summer at this place, which they had in several parts, some not many miles off. The wettest years

here were about 1774 and 1782, which I have therefore compared with last year, in No. I. where I have set down the whole rain, and cast up the sum, from January the first, to the end of every month, in each year: and it appears, that to the end of January, to the end of February, and of March, the wettest was 1774, the next 1782, and 1792 was less wet than either of them. The very wet April and May in 1782 altered the order of them; and to the end of April, of May, of June, of July, and of August, the wettest was 1782; the next 1774; and the last 1792. September, 1774, that wettest of all months in fifty-seven years, altered the order again to 1774, 1782, 1792; and it continued so to the end of the year. In No. II. I have given some of the greatest twelve months, whether beginning with January or not; and the greatest 365 days is from October 3, 1773 to October 2, 1774, which is 39,724 inches; and all that I have here given exceed 1792. In No. III. is the greatest three years, from May 9, 1773 to May 8, 1776, which is 101,455 inches; and the greatest seventeen months, from May 9, 1773 to October 8, 1774, is 56,277 inches. In No. IV. are the greatest nine months, January 6 to October 6, 1774, 30,727 inches; and several others, to 1792, 24,162 inches. In No. V. are several of the greatest six months, from 1774, 24,304 inches, to 1792, 20,257 inches. In No. VI. are several of the greatest three months, from 15,477 inches in 1774, to 10,998 inches in 1792. The greatest month last year was, from August 16 to September 15, 5,108 inches, but I have had thirteen greater; the most of all was in 1774, 8,270 inches; the rest are set down in order in No. VII.; and the last is that in 1792. Lastly, in No. VIII. I have set down together the wettest times in all the several cases.

At Selbourn, between Alton and Petersfield, in Hampshire, which lies at the NE foot of a steep hill, that rises an hundred yards perpendicular above it, they have half as much more rain as I have; there was $48\frac{1}{2}$ inches last year, as it is set down in the first page; but they had $50\frac{1}{4}$ inches in 1782, which is something more. But I was surprised to see, in the Supplement to the Gentleman's Magazine, page 1197, that Mr. GOUGH says there was $83\frac{1}{2}$ inches of rain at Kendal last year. This is an astonishing quantity; though it is a hilly country, it is almost four times my common year, and above double the greatest; and I should have thought it enough, in latitude 54°, to have made the whole country a marsh.